

**What is claimed is:**

1. An assembly for controlling the temperature of an area and the flow of gas in a vented or unvented gas appliance through an improved thermopile construction capable of producing multiple EMF outputs when positioned in close proximity to a pilot flame and generating an EMF signal for the control of the main gas flow through a gas control valve, a second EMF signal to control the modulation of gas to a main burner and a third EMF signal to control a receiver/transmitter for the remote control of other elements of the appliance.
2. The invention of claim 1 wherein the thermocouple portion of the improved thermopile construction generating an EMF in the range of 24 – 32 millivolts when heated by the pilot flame.
3. The invention of claim 1 wherein the first thermopile of the improved thermopile apparatus generates an EMF in the range of 250 millivolts.
4. The invention of claim 1 wherein the second thermopile of the improved thermopile apparatus generating a second EMF in the range of 750 millivolts required by a transmitter/receiver and third electromagnetic gas valve.
5. The invention of claim 1 wherein the improved thermopile apparatus is positioned in close proximity to a pilot flame.